

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/042244 A1

(51) International Patent Classification⁷: B32B 3/06,
B29C 33/76, 33/50 // B29L 9:00, 22/00

(21) International Application Number:
PCT/IT2004/000591

(22) International Filing Date: 27 October 2004 (27.10.2004)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
PCT/IT2003/000707
31 October 2003 (31.10.2003) IT

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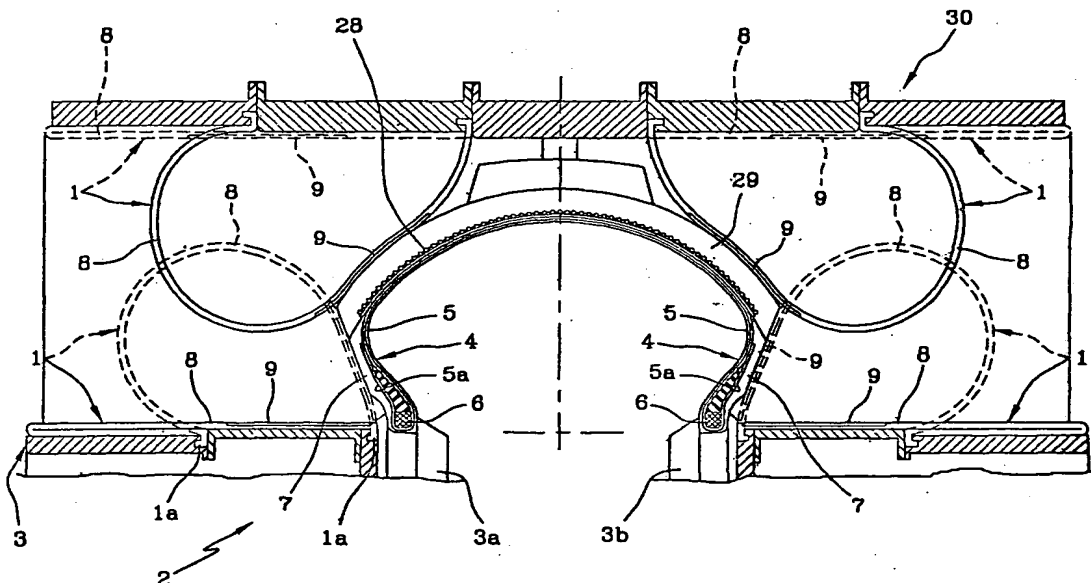
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: AN EXPANDABLE BLADDER FOR TYRE MANUFACTURING APPARATUSES, A MANUFACTURING
METHOD THEREOF AND A PROCESS FOR MANUFACTURING TYRES FOR VEHICLE WHEELS



(57) Abstract: An expandable bladder comprises at least one first layer (8) of a natural or synthetic rubber-based material or a mixture thereof, and one second layer (9) of silicone material, radially external to the first layer (8). The first and second layers (8, 9) have an undulated interface profile defining mechanical-engagement elements between the first and second elastomer materials. Also disclosed is a process for manufacturing said bladder (10) as well as a tyre manufacturing apparatus incorporating bladders in



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:

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